

|  |
| --- |
|  |

**Grunt**

**Guidelines**

**Document History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version No. | Authored/Modified by | Modification Date | Reviewed by, Date | Remark / Change history |
| 1.0 | Bamacharan Kundu | 22nd July 2015 |  | Initial doc |
| 1.1 | Aparna Nigdikar | 29th July 2015 |  | Added document history section |

# Table of Contents

[Table of Contents 3](#_Toc425961973)

[1. Introduction 4](#_Toc425961974)

[2. benEfits of using grunt 4](#_Toc425961975)

[3. Setting up Grunt 4](#_Toc425961976)

[4. writing Gruntfile 4](#_Toc425961977)

# 

# Introduction

* Grunt is a task-based command line build tool for JavaScript projects.
* When working on a JavaScript project, there are a bunch of things you'll want to do regularly.
* Like concatenating given files, running JSHint on your code, running tests, or minifying your scripts.
* Grunt and Grunt plugins are installed and managed via npm, the Node.js package manager.

.

# benEfits of using grunt

* Easy to configure and use.
* Automation of tasks.
* Stream based architecture so very fast.
* Focus on code more not on configuration.
* Code your own build process by yourself.
* Thousands of Plugins to perform task.

# Setting up Grunt

**Before installing the Grunt make sure Node and NPM is installed on the machine**

* *Steps for installing and running Grunt :*
  + **Install Grunt globally**
    - npm install -- global grunt
  + **Install Grunt In devDependencies**
    - npm install grunt –save-dev
  + **Run grunt by running task runner**
    - Grunt (for all default tasks)
    - Grunt taskname (for a particular task)

# writing Gruntfile

This file is used to configure or define tasks and load grunt plugins.

It is comprised of following parts :

**Wrapper Function :**

The wrapper function uses this basic format , all tasks should be written inside function.

*module.exports=function(grunt)*

*{*

*//Project task configuration*

*// Loading grunt plugins and tasks*

*// Registering custom tasks*

*}*

**Project task configuration:**

*grunt.initConfig*

*({*

*pkg: grunt.file.readJSON('package.json'),*

*// all the custom tasks configuration here*

*}*

**Loading grunt plugins and tasks :**

Mainly used tasks like concatenation , minification, linting . We need to install its dependency by doing npm install and we can load the tasks in our gruntfile like this ,

*grunt.loadNpmTasks('grunt-contrib-jshint');*

*grunt.loadNpmTasks('grunt-contrib-uglify');*

*grunt.loadNpmTasks('grunt-contrib-concat');*

**Registering custom tasks:**

You can configure grunt to run more than one task in the following code running grunt at the command line runs all the tasks written in default.

*grunt.registerTask('default',['jshint','uglify','concat','minified','sonarRunner']);*